What is claimed is:

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1. A method of fabricating a device using a photolithographic process, wherein a wavelength of light is used during the photolithographic process, the method comprising:

providing an anti-reflective coating over a surface of a substrate;

providing a layer which is transparent to the wavelength of light over the anti-reflective coating;

providing a photosensitive material above the layer that is transparent to the wavelength of light; and exposing the photosensitive material to a source of radiation including the wavelength of light.

- 2. The method of claim 1 wherein the anti-15 reflective coating extends beneath substantially the entire transparent layer.
 - 3. The method of claim 2 wherein providing an anti-reflective coating includes providing an anti-reflective coating with a complex refractive index which increases absorption of light passing through an interface of the transparent layer and the anti-reflective coating.
 - 4. The method of claim 2 wherein exposing the photosensitive material to a source of radiation includes selectively exposing portions of the photosensitive material to the radiation.
 - 5. The method of claim 4 further including: developing the photosensitive material after exposure to the source of radiation; and

transferring a pattern defined by the remaining photosensitive material to at least one underlying layer.

- 6. The method of claim 2 wherein exposing the photosensitive material to a source of radiation includes exposing the photosensitive material to radiation having a wavelength of approximately 193 nm.
- 7. The method of claim 2 wherein exposing the photosensitive material to a source of radiation includes exposing the photosensitive material to radiation having a wavelength of approximately 248 nm.

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- 8. The method of claim 2 wherein exposing the photosensitive material to a source of radiation includes exposing the photosensitive material to radiation having a wavelength of approximately 365 nm.
- 9. A method of fabricating a device using a photolithographic process, wherein a wavelength of light is used during the photolithographic process, the method comprising:

forming a first anti-reflective coating over a substrate;

providing a layer which is transparent to the wavelength of light over the first anti-reflective coating; forming a second anti-reflective coating over the layer which is transparent to the wavelength of light; providing a photosensitive material over the second anti-reflective coating; and

exposing the photosensitive material to a source of radiation including the wavelength of light.

- 10. The method of claim 9 wherein providing a first anti-reflective coating includes providing an anti-reflective layer with a complex refractive index which increases absorption of light passing through an interface of the transparent layer and the first anti-reflective coating.
- 11. The method of claim 10 wherein providing a second anti-reflective coating includes providing an anti-reflective layer with a complex refractive index which reduces reflectivity of light at an interface between the photosensitive material and the second anti-reflective coating.

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12. The method of claim 11 wherein exposing the photosensitive material to a source of radiation includes selectively exposing portions of the photosensitive material to the radiation, the method further including:

developing the photosensitive material after exposure to the source of radiation; and

transferring a pattern defined by the remaining photosensitive material to at least one underlying layer.

- 13. A semiconductor device comprising:
- a layer that is transparent to light having a wavelength of approximately 248 nm;
- a first anti-reflective coating extending substantially entirely beneath the transparent layer.
 - 14. The semiconductor device of claim 13 wherein the first anti-reflective coating has a complex refractive index with an imaginary part whose value is at least one.

- 15. The semiconductor device of claim 13 wherein the transparent layer includes a material selected from the group consisting of BPSG, PSG and TEOS.
- 16. The semiconductor device of claim 135 wherein the transparent layer includes an oxide.
 - 17. The semiconductor device of claim 13 wherein the first anti-reflective coating includes a material comprising an organic polymer.
- 18. The semiconductor device of claim 13
 10 wherein the first anti-reflective coating includes a material comprising silicon and nitrogen.
 - 19. The semiconductor device of claim 13 wherein the first anti-reflective coating includes a material comprising silicon and oxygen.
- 15 20. The semiconductor device of claim 13 further including:
 - a second anti-reflective coating extending over the transparent layer.
 - 21. A semiconductor device comprising:
- a layer that is transparent to light having a wavelength of approximately 365 nm;
 - a first anti-reflective coating extending substantially entirely beneath the transparent layer.
- 22. The semiconductor device of claim 21 25 wherein the first anti-reflective coating has a complex

refractive index with an imaginary part whose value is at least one.

- 23. The semiconductor device of claim 21 wherein the transparent layer includes a material selected from the group consisting of BPSG, PSG and TEOS.
 - 24. The semiconductor device of claim 21 wherein the transparent layer includes an oxide.
- 25. The semiconductor device of claim 21 wherein the first anti-reflective coating includes a material comprising silicon and nitrogen.
 - 26. The semiconductor device of claim 21 wherein the first anti-reflective coating includes a material comprising silicon and oxygen.
- 27. The semiconductor device of claim 21 further including:

a second anti-reflective coating extending over the transparent layer.

- y 28. A semiconductor device comprising:
 a layer that is transparent to light having a wavelength of approximately 193 nm;
- a first anti-reflective coating extending substantially entirely beneath the transparent layer.

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29. The semiconductor device of claim 28 wherein the first anti-reflective coating has a complex refractive index with an imaginary part whose value is at least one.

- 30. The semiconductor device of claim 28 wherein the transparent layer includes a material selected from the group consisting of BPSG, PSG and TEOS.
- 31. The semiconductor device of claim 28 wherein the transparent layer includes an oxide.
 - 32. The semiconductor device of claim 28 wherein the first anti-reflective coating includes a material comprising silicon and nitrogen.
- 33. The semiconductor device of claim 28

 10 wherein the first anti-reflective coating includes a

 material comprising silicon and oxygen.
 - 34. The semiconductor device of claim 28 further including:
- a second anti-reflective coating extending over the transparent layer.